

Author Correction: A naturally occurring antiviral ribonucleotide encoded by the human genome

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 Check for updates

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In this Letter, the isotopologue used to demonstrate hydrogen atom abstraction from CTP was incorrectly identified as 2',3',4',5',5'-deutero-CTP, whereas the isotopologue we used was 3',4',5',5'-deutero-CTP. (Boldface indicates where changes were made.) In the main text, the sentence “Incubation of rVIP with SAM and CTP deuterated at the 2', 3', 4', 5' and 5 positions (deuCTP), increased the $-m/z$ of 5'-dA from 250.1 to 251.1, consistent with the transfer of one deuterium from deuCTP to 5'-dA.” should have read “Incubation of rVIP with SAM and CTP deuterated at the 3', 4', 5' and 5 positions (deuCTP) increased the $-m/z$ of 5'-dA from 250.1 to 251.1, consistent with the transfer of one deuterium from deuCTP to 5'-dA.” In the Extended Data Fig. 3 legend the sentence “When rVIP was incubated with SAM and CTP deuterated at the 2', 3', 4', 5' and 5 positions (deuCTP), the $-m/z$ of 5'-dA increased from 250.1 to 251.1, consistent with the transfer of one deuterium from deuCTP to 5'-dA.” should have read: “When rVIP was incubated with SAM and CTP deuterated at the 3', 4', 5' and 5 positions (deuCTP), the $-m/z$ of 5'-dA increased from 250.1 to 251.1, consistent with the transfer of one deuterium from deuCTP to 5'-dA.”

Similarly, the name of the isotopologue appeared incorrectly in the Supplementary Information. In the Supplementary Information section ‘Hydrogen atom abstraction specificity’ the sentence “Reactions of 100 μ L total volume contained 100 μ M rVIP, 50 mM HEPES pH 7.5, 150 mM KCl, 1 mM SAM, and 1 mM deuterium-labeled CTP (site-specifically labeled CTP contains deuterium at the following position; **(2'- 2 H, 3'- 2 H, 4'- 2 H, or 5'- 2 H-CTP)**.” should have read: “Reactions of 100 μ L total volume contained 100 μ M rVIP, 50 mM HEPES pH 7.5, 150 mM KCl, 1 mM SAM, and 1 mM deuterium-labelled CTP (site-specifically labelled CTP contains deuterium at the following positions: **3'- 2 H, 4'- 2 H, 5'- 2 H, 5'- 2 H-CTP or 2'- 2 H-CTP, 3'- 2 H-CTP, 4'- 2 H-CTP or 5'- 2 H-CTP**). In the Supplementary Information section ‘2'-deoxy-CTP vs deutero-CTP substrate specificity assays’ the sentence “Reactions of 100 μ L total volume contained 100 μ M rVIP, 50 mM HEPES pH 7.5, 150 mM KCl, 1 mM SAM, 1 mM deuterio-CTP (**2'- 2 H, 3'- 2 H, 4'- 2 H, 5'- 2 H, and 5'- 2 H-CTP**), and unlabeled 1 mM 2'-deoxy-CTP.” should have read: “Reactions of 100 μ L total volume contained 100 μ M rVIP, 50 mM HEPES pH 7.5, 150 mM KCl, 1 mM SAM, 1 mM deuterio-CTP (**3'- 2 H, 4'- 2 H, 5'- 2 H, 5'- 2 H-CTP**), and unlabeled 1 mM 2'-deoxy-CTP.” These errors have been corrected online.